INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2007/057058

A. CLASSIFICATION OF SUBJECT MATTER

C12N15/09(2006.01)i, A61K39/395(2006.01)i, A61P43/00(2006.01)i, C07K16/00 (2006.01)i, C07K19/00(2006.01)i, C12N1/15(2006.01)i, C12N1/19(2006.01)i, C12N1/21(2006.01)i, C12N5/10(2006.01)i, C12P21/02(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

ai N

d

Minimum documentation searched (classification system followed by classification symbols) C12N15/09, A61K39/395, A61P43/00, C07K16/00, C07K19/00, C12N1/15, C12N1/19, C12N1/21, C12N5/10, C12P21/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2007

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
BIOSIS/MEDLINE/WPIDS(STN), PubMed, JMEDPlus(JDream2), JSTPlus(JDream2)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X/Y	MERCHANT, A.M., et al., An efficient route to human bispecific IgG, Nat. Biotechnol., Vol.16, No.7, 1998, p.677-81 (particularly, table 1)	1-6,8-15, 17-27,29-33 /1-19,23-33
X/Y	MANZKE, O. et al., Single-step purification of bispecific monoclonal antibodies for immunotherapeutic use by hydrophobic interaction chromatography, J. Immunol. Methods, Vol.208, No.1, 1997, p.65-73 (particularly, Materials and Methods, 2.1 Ko, Figs.1, 2B, 3)	9,19,23-29, 32,33 /1-19,23-33
Y	MARVIN, J.S., et al., Recombinant approaches to IgG-like bispecific antibodies, Acta Pharmacol. Sin., Vol.26, No.6, 2005, p.649-58	1-19,23-33

* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"I." document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"O"	document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"P"	document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family		
Date	e of the actual completion of the international search 17 April, 2007 (17.04.07)	Dat	e of mailing of the international search report 01 May, 2007 (01.05.07)		
	ne and mailing address of the ISA/ Japanese Patent Office	Aut	horized officer		
Facs	simile No.	Tel	ephone No.		
Form	PCT/ISA/210 (second sheet) (April 2005)				

See patent family annex.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2007/057058

C (Continuation	a). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	TARDITI, L., et al., Selective high-performance liquid chromatographic purification of bispecific monoclonal antibodies, J.Chromatogr., Vol.599, No.1-2, 1992, p.13-20	1-37
А	CARTER, P., Bispecific human IgG by design, J. Immunol. Methods, Vol.248, No.1-2, 2001, p.7-15	1-37
А	KREUTZ, F.T., et al., Efficient bispecific monoclonal antibody purification using gradient thiophilic affinity chromatography, J.Chromatogr. B Biomed. Sci. Appl., Vol.714, No.2, 1998, p.161-70	1-37
А	JP 09-506001 A (GSF-Forschungszentrum fuer Ummelt und Gesundheit GmbH), 17 June, 1997 (17.06.97), All pages & EP 0763128 A1 & US 5945311 A & WO 1995/033844 A1	1-37
P,X	WO 2006/106905 Al (Chugai Pharmaceutical Co., Ltd.), 12 October, 2006 (12.10.06), All pages (particularly, Fig. 27) (Family: none)	1-6,8-15, 17-19,23-27, 29-33

Form PCT/ISA/210 (continuation of second sheet) (April 2005)